

2806J-E18TAG1 Electric Power Engines

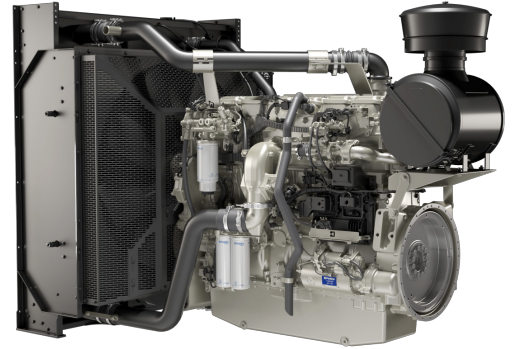
Power range 1500 rpm 559 kW (engine gross power)

Power range 1800 rpm 555 kW (engine gross power)

Emissions EU Stage V

The Perkins® 2000 Series is a family of proven 6 cylinder 13, 15 and 18 litre diesel engines, designed to address today's uncompromising demands within the power generation industry for both prime, standby and mobile applications.

The 2806J-E18TAG1 joins Perkins expanding suite of engines for power generation that meet the most stringent emission standards. The engine and aftertreatment share a common heritage with on-highway truck and heavy duty construction engines, offering superior performance and reliability.



Features and benefits

- **Maximising productivity** by achieving ISO 8528-5 G2 performance. The 2806J provides excellent performance in a wide range of electric power applications. From a stationary prime source of power to a mobile unit serving the rental market, the 2806J performs seamlessly, generating power for jobsites, critical applications such as hospitals and data centres.
- New for the 2800 Series, three electronic control modules (ECM) have been replaced by a single engine mounted ECM. The new **optimised electronic architecture** simplifies wiring harnesses, eases installation, supports future diagnostics and is fully capable of integration with customers' telematics solutions.
- Mechanically operated unit fuel injectors (MEUI) with electronic control combined with carefully matched turbocharging, provide excellent fuel economy and low emissions while exhaust gas recirculation minimises Diesel Exhaust Fluid (DEF) consumption, ensuring **low daily operating costs**. Robust design and proven durability ensure years of reliable performance.
- Exceptional power to weight ratio and compact size provide optimum power density. The aftertreatment, proven over millions of hours use in demanding off-road applications, operates seamlessly without any intervention from the operator while reducing emissions significantly. The result is **clean and efficient power**.
- **Perkins global product support** is designed to enhance the customer experience of owning a Perkins powered machine. We deliver this through the quality of our distribution network, extensive global coverage and a range of Perkins supported OEM collaboration opportunities.

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Specification

	Model
	2806J-E18TAG1
Configuration	Vertical in-line
Cylinders	6
Displacement, litres (in ³)	18.1 (1106)
Aspiration	Turbocharged and air-to-air chargecooled
Bore and stroke, mm (in)	145 x 183 (5.7 x 7.2)
Combustion system	Electronic unit injection
Compression ratio	16:1
Exhaust aftertreatment	DOC/DPF/SCR
Rotation (viewed from flywheel)	Anti-clockwise, viewed on flywheel
Total lubricating oil capacity, litres (US gal)	74 (19.5)
Cooling system	Watercooled
Total coolant capacity, litres (US gal)	74 (19.5)

Technical Information

Model	Speed	Type of Operation	Engine Power		Typical Generator Output* (Net)		Prime Fuel Consumption			
			Gross	Net			110%	100%	75%	50%
	rpm		kW (hp)	kW (hp)	kVA	kWe	g/kWh	g/kWh	g/kWh	g/kWh
2806J-E18TAG1	1500	Prime	508 (681)	479 (642)	554	444	205	204	204	203
		Standby	559 (750)	530 (711)	610	488				
	1800	Prime	501 (672)	475 (637)	569	455	212	212	213	222
		Standby	555 (744)	529 (709)	625	500				

*Generator powers are typical and based on typical alternator efficiencies and a power factor (cos θ) or 0.8.

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Standard Equipment

	Model
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Electro unit or ElectropaK	ElectropaK
Radiator fitted	✓
Fuel filter, engine mounted	✓
Water separator	N/A
Fuel priming pump (manual/electric)	Electric
Fuel cooler (not required for most installations)	N/A
Air filter, engine mounted	✓
Engine ECM, engine mounted	✓
Wiring harness to ECM	✓
Wiring harness (all connectors to single customer interface)	✓
Starter motor	✓
Battery charging alternator	✓
Flywheel housing	✓
Flywheel	✓
Fan	✓
Fan guard	✓
Temperature and oil pressure for automatic stop/alarm configurable	✓

Aftertreatment

	Model
	2806J-E18TAG1
Aftertreatment configuration	Remote mounted aftertreatment
Aftertreatment type	DOC/DPF/SCR
Exhaust flexible pipe (engine to aftertreatment)	✓
DEF tank	✓
Heated DEF lines	✓

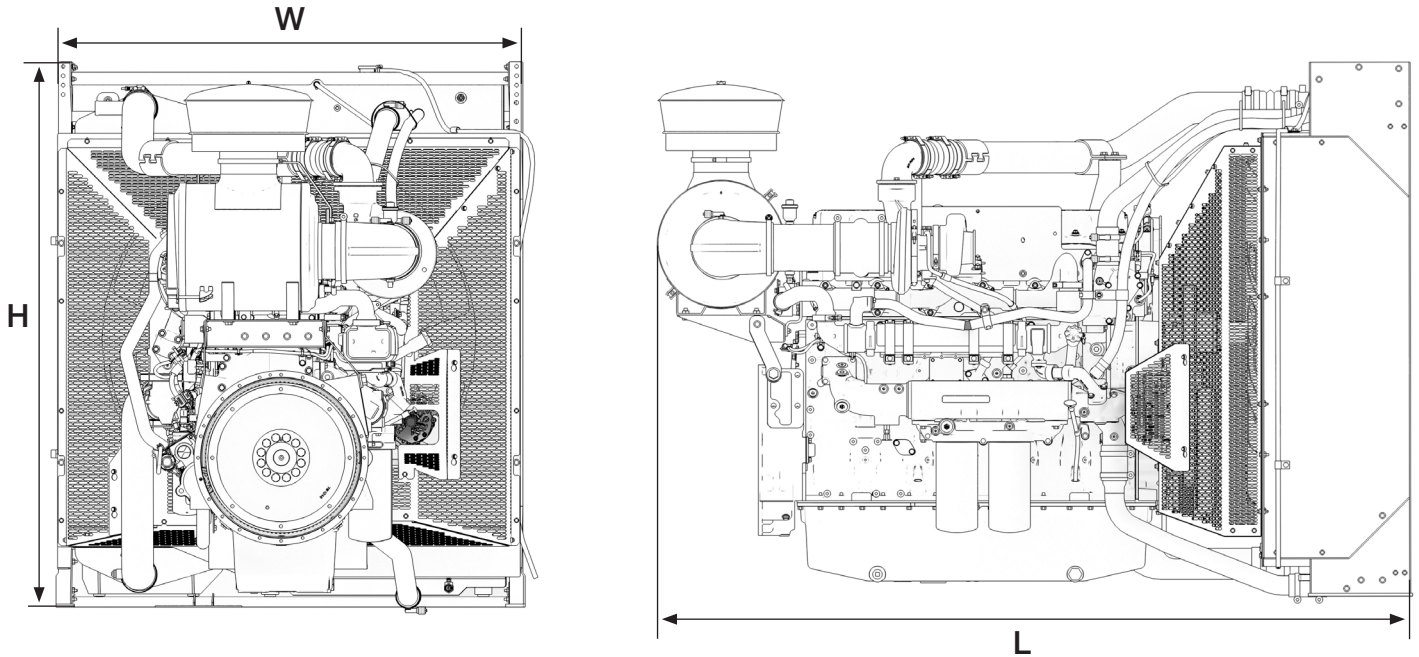
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Engine Package Weights and Dimensions



	Model
	2806J-E18TAG1
Configuration	ElectropaK
Dimensions, H x L x W, mm (in)	1741 x 2458 x 1520 (69 x 97 x 60)
Dry weight, kg (lb)	2065 (4552)

Prime power: Unlimited hours usage with an average load factor of 80 percent of the published prime power over each 24 hour period. A 10 percent overload is available for one hour in every 12 hours operation.

Standby power: Limited to 500 hours usage with an average load factor of 80 percent of the published standby power over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted.

Data Centre Power (DCP): Power available for variable or continuous electrical loads in a data centre application. Up to 100 percent load factor is permitted for unlimited time. An overload of 10 percent is permitted for one hour in every 12 hours of operation. DCP power definition relies on ISO8528-1 2018 standard to be followed by generator set manufacturer, and will support Tier I to Tier IV classifications of data centres as per UPTIME institute guidelines.

Limited-time running power (LTP): Maximum of 500 hours per year with an average load factor of 100 percent of the published LTP power.

Continuous Operating Power (COP): Unlimited hours usage with an average load factor of 100 percent of the published continuous operating power. No overload is permitted on continuous operating power.